



Features

- Low VSWR
- High isolation
- High reliability
- Pressurisable
- Waterproof
- Ice-proof options
- RoHS Compliant
- Competitively Priced
- Models from 2.6 GHz to 40 GHz



Model 18336S-000S0AL10

Model 22336-100S0AL00

Applications

- Switching Networks
- Satcom systems
- SNG systems

For many years, Flann have manufactured a range of very high-performance switches (Series 333) and controllers ideally suited for use in the most demanding applications, such as transfer standards.

Flann Series 336 draw on many of the design features of the Company's precision switches to provide a cost-effective solution for system applications.

Models configurable from options including: Operating voltage, Flange type, Connector position & type, Electrical arrangement, Locking/Key removal and ice-proofing.

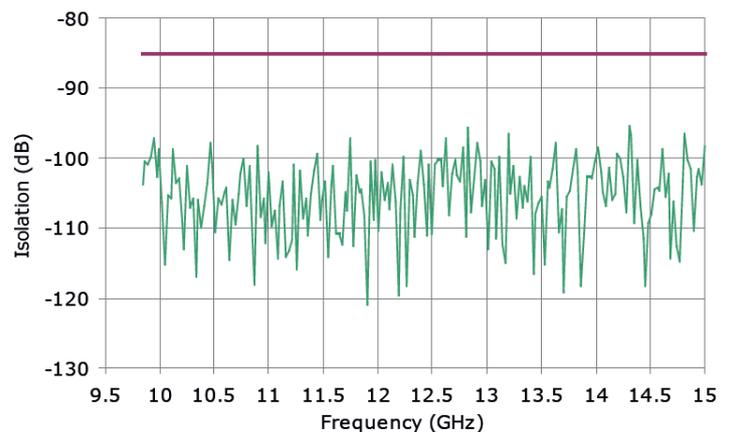
Related Products

- Series 101: High Power Terminations
- Series 131/132/133: Multihole Couplers
- Series 524: Variable Phase Combiner

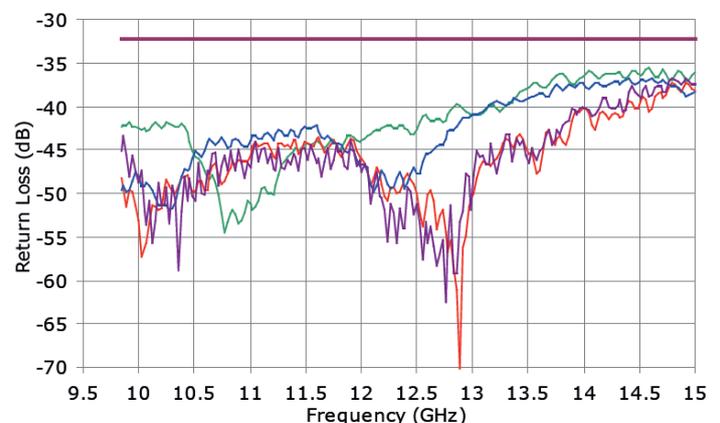
Custom Design

Custom built instruments can be supplied; please contact the Sales Team for more information.

Typical Isolation for Models 17336



Typical Return Loss for Models 17336





Specifications

Waveguide Switch

Waveguide			Frequency (GHz)	Min Return Loss (dB)	Max Insertion Loss (dB)	Min Isolation (dB)	Max Mean Power (kW)	Max Switching Time (ms)	VSWR @ Inhibit Actuation
WG	R	WR							
10	32	284	2.60-3.95	32.3	0.015	85	25	250	1.1
11A	40	229	3.22-4.90	32.3	0.015	85	20	160	
12	48	187	3.94-5.99	32.3	0.02	90	15	110	
14	70	137	5.38-8.20	32.3	0.02	85	12	80	
15	84	112	6.58-10.0	32.3	0.03	85	8	60	
16	100	90	8.20-12.5	32.3	0.04	85	5.5	60	
17	120	75	9.84-15.0	32.3	0.04	85	5	50	
18	140	62	11.9-18.5	32.3	0.05	85	3.5	50	
19	180	51	14.5-22.0	30.7	0.06	75	2	50	
20	220	42	17.6-26.7	29.4	0.08	75	1.5	50	
21	260	34	21.7-33.0	29.4	0.09	75	1.2	50	
22	320	28	26.4-40.1	28.3	0.1	75	0.8	50	
580-D28			5.80-16.0	23.1	0.20	65	1.1	60	1.15

Coaxial Switch

Model	Frequency (GHz)	Max VSWR	Max Insertion Loss (dB)	Min Isolation (dB)	Coax Connector
CL336N	0 – 8.5	1.22	0.2	70	N-type
CL336S	0 – 22.5	1.3	0.5	60	SMA

Environmental Specification

Ambient operating temperature:	-40 to +85 °C
Storage temperature:	-55 to +100°C
Humidity:	100%
Vibration:	Commercial transport
Pressurisation:	15 PSIG



Ordering Information

Be advised that not all options are compatible with each other. Contact Flann for specific requirements.

Please specify the following:

WG / COAX DESIGNATION	Series	Flange Type	Voltage	Mounting holes	Connector position	Connector type	Electrical Arrangement	Latching	Locking & key removal	Options
10-22	336	0	0	0	S (side)	0	A-M	L (latching)	0 (no locking)	0 (none)
WRD580	336N	1	1	1	T (top)	1		F (failsafe)	1 (tubular lockable position 1)	1 (weatherproof)
CL	336S	2	2			2				
		3	3			3				
						4				

Example: WRD580336-020S0AL00

Flange Types

WG	Option code			
	0	1	2	3
10	PDR32 (M6)	UDR32 (M6)	CPR284G (1/4-20UNC)	CPR284F (1/4-20UNC)
11A	PDR40 (M6)	UDR40 (M6)	CPR229G (1/4-20UNC)	CPR229F (1/4-20UNC)
12	PDR48 (M6)	UDR48 (M6)	CPR187G (1/4-20UNC)	CPR187F (1/4-20UNC)
14	PDR70 (M5)	UDR70 (M5)	CPR137G (10-32UNC)	CPR137F (10-32UNC)
15	PBR84 (M4)	UBR84 (M4)	UG51/U style + O ring groove (8-32UNC)	UG51/U53-002 (8-32UNC)
16	PBR100 (M4)	UBR100 (M4)	UG39/U style + O ring groove (8-32UNC)	UG39/U53-002 (8-32UNC)
17	PBR120 (M4)	UBR120 (M4)	3922/53-007 style + O ring groove (6-32UNC)	3922/53-007 (6-32UNC)
18	PBR140 (M4)	UBR140 (M4)	UG419/U style + O ring groove (6-32UNC)	UG419/U (6-32UNC)
19	PBR180 (M4)	UBR180 (M4)	3922/70-010 style + O ring groove (6-32UNC)	3922/70-010 (6-32UNC)
20	PBR220 (M3)	UBR220 (M3)	UG595/U style + O ring groove (4-40UNC)	UG595/U (4-40UNC)
21	PBR260 (M3)	UBR260 (M3)	UG1530/U style + O ring groove (4-40UNC)	UG1530/U (4-40UNC)
22	PBR320 (M3)	UBR320 (M3)	UG599U style + O ring groove (4-40UNC)	UG599/U (4-40UNC)
WRD580	G2A (6-32UNC)	C2A (6-32UNC)		

Voltage

Option code	Voltage (V)
0	+23 to +30 dc
1	-23 to -30 dc
2	+10 to +14 dc
3	-10 to -14 dc

Mounting holes

WG	Option code 0	Option code 1
10	M6	¼-20 UNC
11A		
12	M5	10-32 UNF
14		
15		
16		
17		
18		
19	M4	8-32 UNC
20		
21		
22	M3	6-32 UNC
WRD580		
WRD580	M4	8-32 UNC

Connector types

Option code	MIL-C-26482 series 1 (straight/strain relief/environmentally sealed)
0	14 shell 19 pin
1	14 shell 12 pin
2	12 shell 10 pin
3	10 shell 06 pin
4	10-6 & 8-2 for RS485 interface

Mating connector supplied with all options

FLANN MICROWAVE LTD

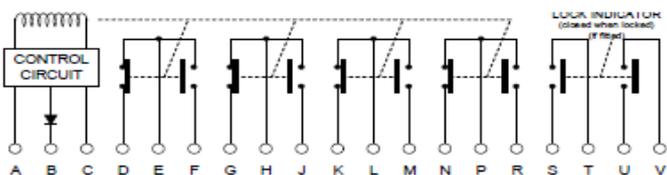
Dunmere Road
Bodmin
Cornwall
PL31 2QL

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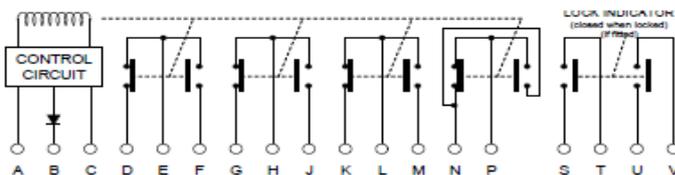
Tel: +44 (0)1208 77777
sales@flann.com
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Electrical arrangements

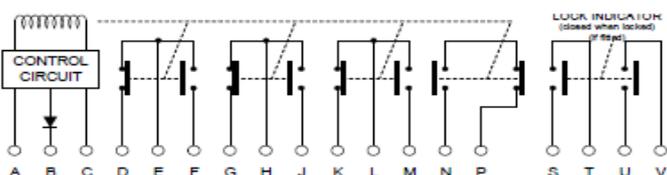
A - (standard) - 4 Form 'C' Contacts



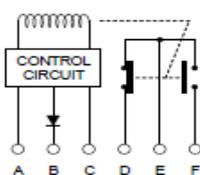
B - 3 Form 'C' Contacts, 1 Inhibit Contact (Normally Closed, Opens during Switching)



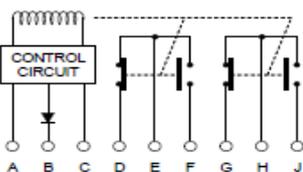
C - 3 Form 'C' Contacts, 1 Inhibit Contact (Normally Open, Closes during Switching)



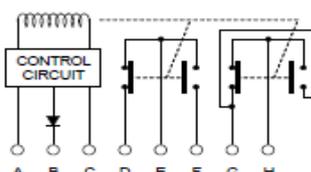
D - 1 Form 'C' Contact



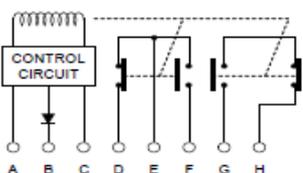
E - 2 Form 'C' Contacts



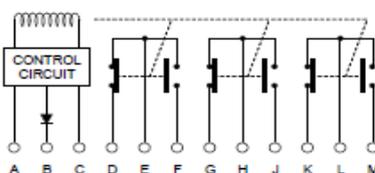
F - 1 Form 'C' Contact, 1 Inhibit Contact (Normally Closed, Opens during Switching)



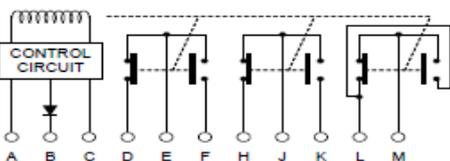
G - 1 Form 'C' Contact, 1 Inhibit Contact (Normally Open, Closes during Switching)



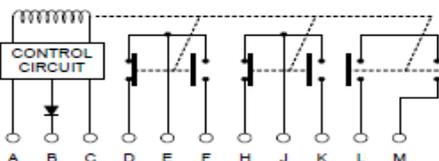
H - 3 Form 'C' Contacts



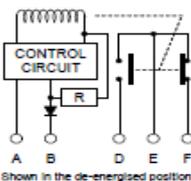
J - 2 Form 'C' Contacts, 1 Inhibit Contact (Normally Closed, Opens during Switching)



K - 2 Form 'C' Contacts, 1 Inhibit Contact (Normally Open, Closes during Switching)



L - 1 Form 'C' Contact, Fail-Safe



M - 1 Form 'C' Contact, Key Locking

